L Number	Hits	Search Text	DB	Time stamp
1	845	dtmf adj2 decoder	USPAT; US-PGPUB; EPO; JPO	2004/07/05 14:52
2	845	(dtmf adj2 decoder) and ad@<=20020124	USPAT; US-PGPUB; EPO; JPO	2004/07/05 14:52
3	477546	amplifier	USPAT; US-PGPUB; EPO; JPO	2004/07/05 14:52
4	109	(dtmf adj2 decoder) same amplifier	USPAT; US-PGPUB; EPO; JPO	2004/07/05 14:53
6	591077	cpu or processor or digital adj logic	USPAT; EPO; JPO	2004/07/05 15:03
7	76	((dtmf adj2 decoder) same amplifier) and (cpu or processor or digital adj logic)	USPAT; EPO; JPO	2004/07/05 15:04
8	165559	analog adj3 digital adj2 converter or "a/d" or codec	USPAT; EPO; JPO	2004/07/05 15:04
9	15	(((dtmf adj2 decoder) same amplifier) and (cpu or processor or digital adj logic)) and (analog adj3 digital adj2 converter or "a/d" or codec)	USPAT; EPO; JPO	2004/07/05 15:04
10	1	"6195421".PN.	USPAT	2004/07/05 15:06
-	736	379/216.01,355.01-355.1.ccls.	USPAT; EPO; JPO	2004/02/02 17:30
-	862	379/216.01,355.01-356.01.ccls.	USPAT; EPO; JPO	2004/02/02 17:29
-	8961	(abbreviat$3 or speed) near3 (dial$3 or number).ab,ti.	USPAT; EPO; JPO	2004/02/02 18:59
-	74	379/216.01,355.01-356.01.ccls. and ((abbreviat$3 or speed) near3 (dial$3 or number).ab,ti.)	USPAT; EPO; JPO	2004/02/02 17:31
-	2782	automat$3 near5 updat$3	USPAT; EPO; JPO	2004/02/02 17:32
-	3	(379/216.01,355.01-356.01.ccls. and ((abbreviat$3 or speed) near3 (dial$3 or number).ab,ti.)) and (automat$3 near5 updat$3)	USPAT; EPO; JPO	2004/02/02 17:43
-	2579	(time near5 call$3) with count$3	USPAT; EPO; JPO	2004/02/02 17:44
-	3006	repeat$3 near5 (call$3 or number) with count$3	USPAT; EPO; JPO	2004/02/02 17:44
-	5507	((time near5 call$3) with count$3) or (repeat$3 near5 (call$3 or number) with count$3)	USPAT; EPO; JPO	2004/02/02 17:44
-	29	379/216.01,355.01-356.01.ccls. and (((time near5 call$3) with count$3) or (repeat$3 near5 (call$3 or number) with count$3))	USPAT; EPO; JPO	2004/02/02 17:50
-	1811	automat$3 near2 updat$3	USPAT; EPO; JPO	2004/02/02 17:51
-	1	(379/216.01,355.01-356.01.ccls. and (((time near5 call$3) with count$3) or (repeat$3 near5 (call$3 or number) with count$3))) and (automat$3 near2 updat$3)	USPAT; EPO; JPO	2004/02/02 18:18
-	87	(programm$3 or updat$3) near2 speed near2 dial$3	USPAT; EPO; JPO	2004/02/02 18:19
-	21	(((time near5 call$3) with count$3) or (repeat$3 near5 (call$3 or number) with count$3)) and ((programm$3 or updat$3) near2 speed near2 dial$3)	USPAT; EPO; JPO	2004/02/02 18:19
-	2	379/216.01,355.01-356.01.ccls. and ((((time near5 call$3) with count$3) or (repeat$3 near5 (call$3 or number) with count$3)) and ((programm$3 or updat$3) near2 speed near2 dial$3))	USPAT; EPO; JPO	2004/02/02 18:19
-	9034	((abbreviat$3 or speed) near3 (dial$3 or number).ab,ti.) or ((programm$3 or updat$3) near2 speed near2 dial$3)	USPAT; EPO; JPO	2004/02/02 19:00
-	87	((programm$3 or updat$3) near2 speed near2 dial$3) and (((abbreviat$3 or speed) near3 (dial$3 or number).ab,ti.) or ((programm$3 or updat$3) near2 speed near2 dial$3))	USPAT; EPO; JPO	2004/02/02 19:00
-	6225	outg$5 near2 call$3	USPAT; EPO; JPO	2004/02/02 19:01

-	10	"5734712" and predeterm$5	USPAT; EPO; JPO	2004/06/25 14:02
-	1	"6119090" and output$3	USPAT; EPO; JPO	2004/06/25 13:23
-	1	"6119090" and reference	USPAT; EPO; JPO	2004/06/25 13:24
-	0	"6119090" and exceed$1	USPAT; EPO; JPO	2004/06/25 13:34
-	0	"6119090" and final	USPAT; EPO; JPO	2004/06/25 13:34
-	3	"6119090" and relat$3	USPAT; EPO; JPO	2004/06/25 13:39
-	3	"6119090" and resistor	USPAT; EPO; JPO	2004/06/25 13:41
-	3	"6119090" and capacitor	USPAT; EPO; JPO	2004/06/25 13:41
-	0	"5734712" and compar$3 near input	USPAT; EPO; JPO	2004/06/25 14:03
-	3	"5734712" and (compar$3 near5 input)	USPAT; EPO; JPO	2004/06/25 14:03
-	9	"5734712" and (compar$3)	USPAT; EPO; JPO	2004/06/25 14:04
-	9	"5734712" and (compar$3) and predeterm$5	USPAT; EPO; JPO	2004/06/25 14:07
-	0	"5734712" and final$1	USPAT; EPO; JPO	2004/06/25 14:08
-	6	"5734712" and exceed$1	USPAT; EPO; JPO	2004/06/25 14:09
-	1017	dtmf with decoder	USPAT; EPO; JPO	2004/07/05 16:20
-	696817	amplifier or driver	USPAT; EPO; JPO	2004/07/05 10:24
-	44927	"adc" or analog adj digital adj converter	USPAT; EPO; JPO	2004/07/05 10:24
-	591077	cpu or processor or digital adj logic	USPAT; EPO; JPO	2004/07/05 10:25
-	2466	(amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)	USPAT; EPO; JPO	2004/07/05 10:00
-	1	(dtmf with decoder) same ((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic))	USPAT; EPO; JPO	2004/07/05 10:00
-	8784	dtmf	USPAT; EPO; JPO	2004/07/05 10:02
-	24	((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) same dtmf	USPAT; EPO; JPO	2004/07/05 10:04
-	98746	tip and ring	USPAT; EPO; JPO	2004/07/05 10:55
-	1	(dtmf with decoder) and (((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and (tip and ring))	USPAT; EPO; JPO	2004/07/05 10:05
-	2	(((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and (tip and ring)) and dtmf	USPAT; EPO; JPO	2004/07/05 10:05
-	107	((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and (tip and ring)	USPAT; EPO; JPO	2004/07/05 10:09
-	10943	reshap$3	USPAT; EPO; JPO	2004/07/05 11:13
-	2	(tip and ring) and (((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and dtmf)	USPAT; EPO; JPO	2004/07/05 10:09
-	62	((amplifier or driver) same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and dtmf	USPAT; EPO; JPO	2004/07/05 10:12
-	100161	1 and (tip and ring)	USPAT; EPO; JPO	2004/07/05 10:12
-	222	(dtmf with decoder) and (tip and ring)	USPAT; EPO; JPO	2004/07/05 10:12

-	171	((dtmf with decoder) and (tip and ring)) and (amplifier or driver)	USPAT; EPO; JPO	2004/07/05 10:13
-	8	(((dtmf with decoder) and (tip and ring)) and (amplifier or driver)) and ("adc" or analog adj digital adj converter)	USPAT; EPO; JPO	2004/07/05 10:13
-	8	(cpu or processor or digital adj logic) and ((((dtmf with decoder) and (tip and ring)) and (amplifier or driver)) and ("adc" or analog adj digital adj converter))	USPAT; EPO; JPO	2004/07/05 10:13
-	477546	amplifier	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:14
-	55378	"adc" or analog adj digital adj converter	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:06
-	2766	amplifier same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:25
-	7	(dtmf adj2 decoder) and (amplifier same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic))	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:25
-	73497	379/$.ccls.	USPAT; EPO; JPO	2004/07/05 10:32
-	413	(dtmf adj2 decoder) and 379/$.ccls.	USPAT; EPO; JPO	2004/07/05 10:32
-	133	(tip and ring) and ((dtmf adj2 decoder) and 379/$.ccls.)	USPAT; EPO; JPO	2004/07/05 10:32
-	7	("adc" or analog adj digital adj converter) and ((tip and ring) and ((dtmf adj2 decoder) and 379/$.ccls.))	USPAT; EPO; JPO	2004/07/05 10:36
-	2685	dtmf.ab,ti.	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:42
-	3	(amplifier same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and dtmf.ab,ti.	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:42
-	7	("4085295" | "4853958" | "4868872" | "5119322" | "5214693" | "5392348" | "5408529").PN.	USPAT	2004/07/05 10:47
-	700	dtmf adj2 detector or dual adj tone adj detector	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:51
-	20	(amplifier same ("adc" or analog adj digital adj converter) same (cpu or processor or digital adj logic)) and (dtmf adj2 detector or dual adj tone adj detector)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:51
-	118302	tip and ring	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:55
-	166	(dtmf adj2 detector or dual adj tone adj detector) and (tip and ring)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 10:58
-	93	((dtmf adj2 detector or dual adj tone adj detector) and (tip and ring)) and amplifier	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:02
-	4	(((dtmf adj2 detector or dual adj tone adj detector) and (tip and ring)) and amplifier) and ("adc" or analog adj digital adj converter)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:02
-	23	("4041252" | "4278847" | "4333133" | "4368361" | "4388500" | "4567331" | "4787080" | "4812851" | "4918725" | "4961218" | "4987569" | "5034978" | "5132963" | "5204854" | "5249225" | "5253291" | "5280526" | "5287406" | "5333194" | "5434916" | "5504811" | "5533119" | "6343126").PN.	USPAT	2004/07/05 11:03
-	68531	"adc" or analog adj digital adj converter or codec	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:07
-	185	(dtmf adj2 detector or dual adj tone adj detector) and ("adc" or analog adj digital adj converter or codec)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:07

-	92	amplifier and (cpu or processor or digital adj logic) and ((dtmf adj2 detector or dual adj tone adj detector) and ("adc" or analog adj digital adj converter or codec))	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:08
-	24	(tip and ring) and (amplifier and (cpu or processor or digital adj logic) and ((dtmf adj2 detector or dual adj tone adj detector) and ("adc" or analog adj digital adj converter or codec)))	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:08
-	13740	reshap$3	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:13
-	635	amplifier same reshap$3	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:14
-	37674	invert$3 and non-invert$3	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:15
-	51	(amplifier same reshap$3) and (invert$3 and non-invert$3)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:15
-	2	((amplifier same reshap$3) and (invert$3 and non-invert$3)) and ("adc" or analog adj digital adj converter or codec)	USPAT; US-PGPUB; EPO; JPO	2004/07/05 11:15

Patent Assignment Abstract of Title

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     PCT #: NONE   **Publication #:** US20030235292   **Pub Dt:** 12/25/2003
     Inventor: George Cheng
          Title: Dual tone multi-frequency decoder combines software and hardware and method of
          operating the same
Assignment: 1

Reel/Frame: 012947/0758 **Received:** 08/02/2002   **Recorded:** 08/02/2002   **Mailed:** 08/02/2002   **Pages:** 3

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Assignor: CHENG, GEORGE   **Exec Dt:** 07/16/2002

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